



## PART B - FEE(S) TRANSMITTAL

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**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**  
**or Fax** **(571)-273-2885**

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020991 7590 09/20/2006

THE DIRECTV GROUP INC  
 PATENT DOCKET ADMINISTRATION R/R 11/A109  
 P O BOX 956  
 EL SEGUNDO, CA 90245-0956

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Georgann S. Grunebach (Depositor's name)

(Signature)

December 20, 2006 (Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10691133

10/22/2003

Ernest C. Chen

12/21/2006 TBESHAH2 00000004 500383 970 10691133

TITLE OF INVENTION: EQUALIZERS FOR LAYERED MODULATED AND OTHER SIGNALS

01 FC:1501 1400.00 DA  
 02 FC:1504 300.00 DA

APPL. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	PAY. DUE
nonprovisional	NO	\$1400	\$300	\$0	\$1700	12/30/2006

EXAMINER	ART UNIT	CLASS-SUBCLASS
BAYARD, EMMANUEL	2611	375-229000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363)

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB 47 Rev 01-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

Georgann S. Grunebach

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE (CITY and STATE OR COUNTRY)

The DirectV Group, Inc.

El Segundo, California US

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee  
☒ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies

4b. Payment of Fee(s) (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number **50-0383** (enclose an extra copy of this form).

5. Change in Entry Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Date December 20, 2006

Typed or printed name

Georgann S. Grunebach

Registration No 33,179

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comment on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Attention: MAIL STOP ISSUE FEE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Fax: (571) 273-2885

Pages: Cover + 1 + 1 = 3

Date: December 20, 2006

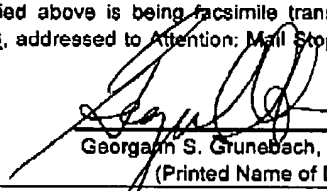
From: Georgann S. Grunebach  
Assistant General Counsel

Fax: (310) 964-0941  
Phone: (310) 964-4615

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Georgann S. Grunebach, Reg. No. 33,179  
(Printed Name of Depositor)

December 20, 2006  
(Date of Signature)

**Attention: Commissioner for Patents, Mail Stop Issue Fee**

Please find attached Re:

Attorney Docket No. PD-202129

Serial No.: 10/691,133

Filing Date: October 22, 2003

➤ PART B – FEE TRANSMITTAL (1 page in duplicate)

If you do not receive all pages, or pages are not clear, please call Janet Shibata at 310-964-0736.

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